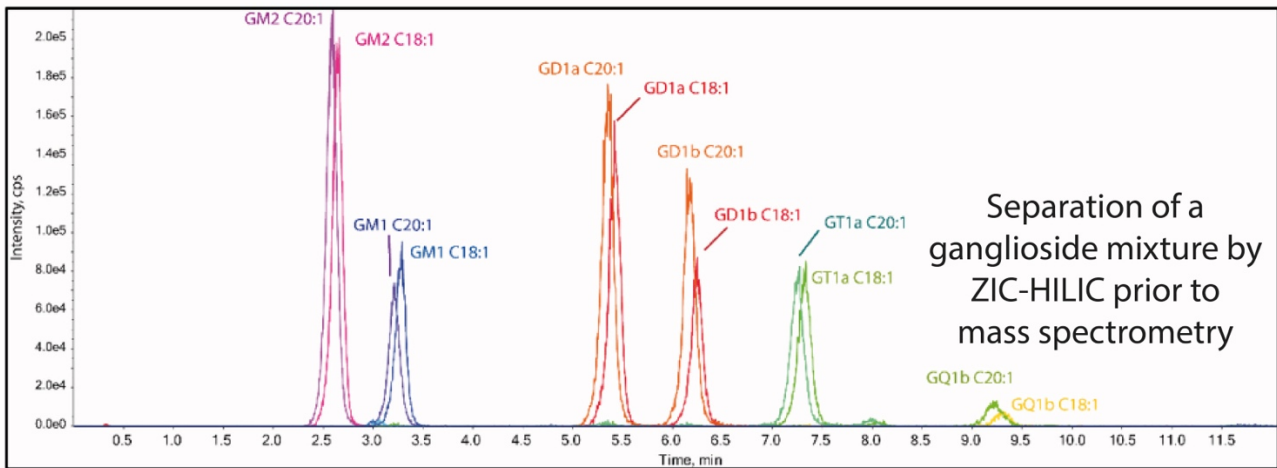
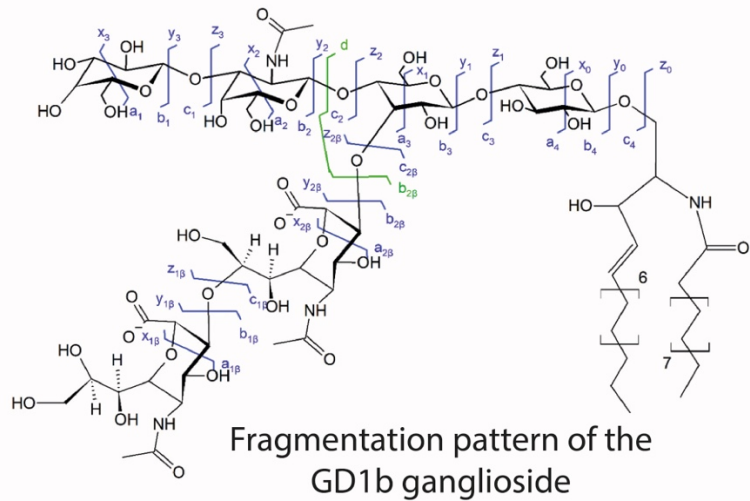


Characterization of Gangliosides by Liquid Chromatography Coupled to MS/MS and MS/MS/MS



Extracted Ion Current (XIC) of various gangliosides

Gangliosides are versatile molecules fulfilling numerous biological functions and their presence is crucial for the nervous system. The characterization of gangliosides by HPLC-MS enables the determination of the various head and tail group compositions. Employing HILIC (hydrophilic interaction liquid chromatography) results in the separation of gangliosides by their head group, whereas reverse-phase chromatography leads to differentiation according to the tail group composition. In the current study, a highly sensitive and reliable LC-MS/MS method for the in-depth characterization of gangliosides was developed.

This work was carried out in the group of Prof. Stefan Schürch

References:

T. Muggli, Master Thesis (2019)